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RAW SEQUENCE LISTING

DATE: 08/13/2001

PATENT APPLICATION: US/09/922,227

TIME: 11:38:51

Input Set : A:\4859.app

Output Set: N:\CRF3\08132001\I922227.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
6 (i) APPLICANT: Ruoslahti, Erkki
7 Pasqualini, Renata
9 (ii) TITLE OF INVENTION: Method of Identifying Molecules That
10 Home to a Selected Organ In Vivo
12 (iii) NUMBER OF SEQUENCES: 44
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Campbell & Flores LLP
16 (B) STREET: 4370 La Jolla Village Drive, Suite 700
17 (C) CITY: San Diego
18 (D) STATE: California
19 (E) COUNTRY: United States
20 (F) ZIP: 92122
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER: US/09/922,227
30 (B) FILING DATE: 02-Aug-2001
31 (C) CLASSIFICATION: C₁
45 (vii) PRIOR APPLICATION DATA:
34 (A) APPLICATION NUMBER: US 08/526,710
35 (B) FILING DATE: 11-SEP-1995
38 (A) APPLICATION NUMBER: US 08/813,273
39 (B) FILING DATE: 10-MAR-1997
42 (A) APPLICATION NUMBER: US 08/862,855
43 (B) FILING DATE: 23-MAY-1997
46 (A) APPLICATION NUMBER: US 09/227,906
47 (B) FILING DATE: 08-JAN-1999
49 (viii) ATTORNEY/AGENT INFORMATION:
50 (A) NAME: Campbell, Cathryn A.
51 (B) REGISTRATION NUMBER: 31,815
52 (C) REFERENCE/DOCKET NUMBER: P-LJ 4859
54 (ix) TELECOMMUNICATION INFORMATION:
55 (A) TELEPHONE: (619) 535-9001
56 (B) TELEFAX: (619) 535-8949
61 (2) INFORMATION FOR SEQ ID NO: 1:
63 (i) SEQUENCE CHARACTERISTICS:
64 (A) LENGTH: 9 amino acids
65 (B) TYPE: amino acid
66 (D) TOPOLOGY: linear
68 (ii) MOLECULE TYPE: peptide
72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
74 Cys Asn Ser Arg Leu His Leu Arg Cys

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```
75      1      5
77 (2) INFORMATION FOR SEQ ID NO: 2:
79      (i) SEQUENCE CHARACTERISTICS:
80          (A) LENGTH: 9 amino acids
81          (B) TYPE: amino acid
82          (D) TOPOLOGY: linear
84      (ii) MOLECULE TYPE: peptide
88      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
90      Cys Glu Asn Trp Trp Gly Asp Val Cys
91      1      5
93 (2) INFORMATION FOR SEQ ID NO: 3:
95      (i) SEQUENCE CHARACTERISTICS:
96          (A) LENGTH: 9 amino acids
97          (B) TYPE: amino acid
98          (D) TOPOLOGY: circular
100     (ii) MOLECULE TYPE: peptide
104     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
106     Cys Leu Ser Ser Arg Leu Asp Ala Cys
107     1      5
109 (2) INFORMATION FOR SEQ ID NO: 4:
111     (i) SEQUENCE CHARACTERISTICS:
112         (A) LENGTH: 8 amino acids
113         (B) TYPE: amino acid
114         (D) TOPOLOGY: linear
116     (ii) MOLECULE TYPE: peptide
120     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
122     Cys Val Leu Arg Gly Gly Arg Cys
123     1      5
125 (2) INFORMATION FOR SEQ ID NO: 5:
127     (i) SEQUENCE CHARACTERISTICS:
128         (A) LENGTH: 9 amino acids
129         (B) TYPE: amino acid
130         (D) TOPOLOGY: linear
132     (ii) MOLECULE TYPE: peptide
136     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
138     Cys Asn Ser Arg Leu Gln Leu Arg Cys
139     1      5
141 (2) INFORMATION FOR SEQ ID NO: 6:
143     (i) SEQUENCE CHARACTERISTICS:
144         (A) LENGTH: 7 amino acids
145         (B) TYPE: amino acid
146         (D) TOPOLOGY: linear
148     (ii) MOLECULE TYPE: peptide
152     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
154     Cys Gly Val Arg Leu Gly Cys
155     1      5
157 (2) INFORMATION FOR SEQ ID NO: 7:
159     (i) SEQUENCE CHARACTERISTICS:
160         (A) LENGTH: 8 amino acids
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161 (B) TYPE: amino acid
162 (D) TOPOLOGY: linear
164 (ii) MOLECULE TYPE: peptide
168 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
170 Cys Lys Asp Trp Gly Arg Ile Cys
171 1 5
174 (2) INFORMATION FOR SEQ ID NO: 8:
176 (i) SEQUENCE CHARACTERISTICS:
177 (A) LENGTH: 8 amino acids
178 (B) TYPE: amino acid
179 (D) TOPOLOGY: linear
181 (ii) MOLECULE TYPE: peptide
185 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
187 Cys Leu Asp Trp Gly Arg Ile Cys
188 1 5
190 (2) INFORMATION FOR SEQ ID NO: 9:
192 (i) SEQUENCE CHARACTERISTICS:
193 (A) LENGTH: 8 amino acids
194 (B) TYPE: amino acid
195 (D) TOPOLOGY: linear
197 (ii) MOLECULE TYPE: peptide
201 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
203 Cys Thr Arg Ile Thr Glu Ser Cys
204 1 5
206 (2) INFORMATION FOR SEQ ID NO: 10:
208 (i) SEQUENCE CHARACTERISTICS:
209 (A) LENGTH: 7 amino acids
210 (B) TYPE: amino acid
211 (D) TOPOLOGY: linear
213 (ii) MOLECULE TYPE: peptide
217 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
219 Cys Glu Thr Leu Pro Ala Cys
220 1 5
222 (2) INFORMATION FOR SEQ ID NO: 11:
224 (i) SEQUENCE CHARACTERISTICS:
225 (A) LENGTH: 8 amino acids
226 (B) TYPE: amino acid
227 (D) TOPOLOGY: linear
229 (ii) MOLECULE TYPE: peptide
233 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
235 Cys Arg Thr Gly Thr Leu Phe Cys
236 1 5
238 (2) INFORMATION FOR SEQ ID NO: 12:
240 (i) SEQUENCE CHARACTERISTICS:
241 (A) LENGTH: 8 amino acids
242 (B) TYPE: amino acid
243 (D) TOPOLOGY: linear
245 (ii) MOLECULE TYPE: peptide
249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

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251      Cys Gly Arg Ser Leu Asp Ala Cys
252      1          5
254 (2) INFORMATION FOR SEQ ID NO: 13:
256      (i) SEQUENCE CHARACTERISTICS:
257          (A) LENGTH: 9 amino acids
258          (B) TYPE: amino acid
259          (D) TOPOLOGY: linear
261      (ii) MOLECULE TYPE: peptide
265      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
267      Cys Arg His Trp Phe Asp Val Val Cys
268      1          5
270 (2) INFORMATION FOR SEQ ID NO: 14:
272      (i) SEQUENCE CHARACTERISTICS:
273          (A) LENGTH: 8 amino acids
274          (B) TYPE: amino acid
275          (D) TOPOLOGY: linear
277      (ii) MOLECULE TYPE: peptide
281      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
283      Cys Ala Asn Ala Gln Ser His Cys
284      1          5
287 (2) INFORMATION FOR SEQ ID NO: 15:
289      (i) SEQUENCE CHARACTERISTICS:
290          (A) LENGTH: 8 amino acids
291          (B) TYPE: amino acid
292          (D) TOPOLOGY: linear
294      (ii) MOLECULE TYPE: peptide
298      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
300      Cys Gly Asn Pro Ser Tyr Arg Cys
301      1          5
303 (2) INFORMATION FOR SEQ ID NO: 16:
305      (i) SEQUENCE CHARACTERISTICS:
306          (A) LENGTH: 21 amino acids
307          (B) TYPE: amino acid
308          (D) TOPOLOGY: linear
310      (ii) MOLECULE TYPE: peptide
314      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
316      Trp Arg Cys Val Leu Arg Glu Gly Pro Ala Gly Gly Cys Ala Trp Phe
317      1          5          10          15
319      Asn Arg His Arg Leu
320          20
322 (2) INFORMATION FOR SEQ ID NO: 17:
324      (i) SEQUENCE CHARACTERISTICS:
325          (A) LENGTH: 20 amino acids
326          (B) TYPE: amino acid
327          (D) TOPOLOGY: linear
329      (ii) MOLECULE TYPE: peptide
333      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
335      Tyr Pro Cys Gly Gly Glu Ala Val Ala Gly Val Ser Ser Val Arg Thr
336      1          5          10          15

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```

338      Met Cys Ser Glu
339              20
343 (2) INFORMATION FOR SEQ ID NO: 18:
345      (i) SEQUENCE CHARACTERISTICS:
346              (A) LENGTH: 20 amino acids
347              (B) TYPE: amino acid
348              (D) TOPOLOGY: linear
350      (ii) MOLECULE TYPE: peptide
354      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
356      Leu Asn Cys Asp Tyr Gln Gly Thr Asn Pro Ala Thr Ser Val Ser Val
357      1              5              10              15
359      Pro Cys Thr Val
360              20
362 (2) INFORMATION FOR SEQ ID NO: 19:
364      (i) SEQUENCE CHARACTERISTICS:
365              (A) LENGTH: 7 amino acids
366              (B) TYPE: amino acid
367              (D) TOPOLOGY: linear
369      (ii) MOLECULE TYPE: peptide
373      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
375      Leu Ser Ser Arg Leu Asp Ala
376      1              5
378 (2) INFORMATION FOR SEQ ID NO: 20:
380      (i) SEQUENCE CHARACTERISTICS:
381              (A) LENGTH: 9 amino acids
382              (B) TYPE: amino acid
383              (D) TOPOLOGY: linear
385      (ii) MOLECULE TYPE: peptide
388      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
390      Val Leu Arg Glu Gly Pro Ala Gly Gly
391      1              5
393 (2) INFORMATION FOR SEQ ID NO: 21:
395      (i) SEQUENCE CHARACTERISTICS:
396              (A) LENGTH: 7 amino acids
397              (B) TYPE: amino acid
398              (D) TOPOLOGY: linear
400      (ii) MOLECULE TYPE: peptide
404      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
406      Cys Leu Pro Val Ala Ser Cys
407      1              5
409 (2) INFORMATION FOR SEQ ID NO: 22:
411      (i) SEQUENCE CHARACTERISTICS:
412              (A) LENGTH: 7 amino acids
413              (B) TYPE: amino acid
414              (D) TOPOLOGY: linear
416      (ii) MOLECULE TYPE: peptide
420      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
422      Cys Gly Ala Arg Glu Met Cys
423      1              5

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/922,227

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Input Set : A:\4859.app

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L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44